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(54) Device for purifying exhaust gas of diesel engines

(57) A device for purifying exhaust gas of diesel engines (10), in which an oxidizing catalyst (20), a diesel particulate filter (21), and an NOx occluding/reducing catalyst (22) are successively disposed in an exhaust gas passage (13) of the diesel engine (10) from the upstream side of the passage, the device for purifying exhaust gas of diesel engines (10) comprising a bypass (15) that connects the upstream side of the oxidizing catalyst (20) with the downstream side thereof in the exhaust gas passage (13), an exhaust gas passage change-over means (32, 34) for changing-over the exhaust gas flow into either the oxidizing catalyst (20) or the bypass (15), an air-fuel ratio control means (30) for

controlling the air-fuel ratio of the exhaust gas, an NOx occlusion amount detector means (40d) for detecting the amount of NOx occluded by the NOx occluding substance, and a controller (40). The controller (40) controls the air-fuel ratio control means (30) and the exhaust gas passage change-over means (32, 34) so that the exhaust gas having a lean air-fuel ratio flows into the oxidizing catalyst (20) when the amount of NOx occluded by the NOx occluding substance does not reach a predetermined value, and so that the exhaust gas having a rich air-fuel ratio flows through the bypass (15) when the amount of NOx occluded by the NOx occluding substance exceeds the predetermined value.

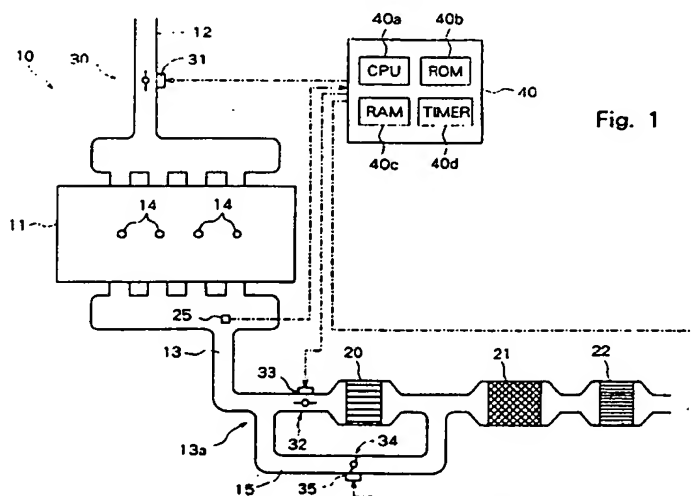


Fig. 1

**ANNEX TO THE EUROPEAN SEARCH REPORT
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